Poster Presentations

Student's Name	Presentation Title	

Amanda Moe	Determining Iron Uptake Mechanisms of Bacillus Anthracis	Bioscience
Anthony Sena	Distinct Pathways of Recombinational Repair in rDNA	Bioscience
Christopher Thompson	The Development of an Isothermal Nucleic Acid Amplification Method for Real Time Pathogen Detection	Bioscience
Dengming Ming	Detecting Functional Sites in Proteins Structures Using Dynamics Perturbation Analysis (DPA)	Bioscience
Elizabeth Balizan	Peptide Markers Used in Quantitative Detection of Botulinum Neurotoxins	Bioscience
Jeremy Kozdon	Toward Faster Simulation of Large-Scale Chemical Reaction Networks	Bioscience
Kathryn Shaw	Molecular Subtyping of the Brucellosis Causing Subspecies of Brucella	Bioscience
Mericka Lehman	Chaos Communications Using Driven Traveling Wave Tube Amplifiers with Delayed Feedback	Bioscience
Michelle McMillian	Grazing Impact on Carbon Sequestration	Bioscience
Michelle Naranjo	Toll Like Receptor 4 (TLR-4) Phosphorylation upon LPS Binding	Bioscience
Nikita Goyal	Role of Iron in Anthrax Infection	Bioscience
Rebecca Hammon	Quantification by Flow Cytometry Of Differences in Protective Antigen Binding in Human Monocytic and Endothelial Cells	Bioscience
Sarita Romero	The Irony of rDNA Recombination	Bioscience
Shawn Jia	Identification of Proteins Interacting with Toll-like Receptors	Bioscience
Steven Teba	Discovering Past Moisture: A Tree Ring Study	Bioscience
Theresa Apodaca	Identification Of Novel Proteins That Bind To Intracellular Domain of Toll-like Receptors	Bioscience

Carina Gunder	Identification of Uranium-Specific Chelators Using Micro X-Ray Fluorescence	Chemistry
Christina Brady	Synthesis of SERS-Active Nanorods	Chemistry
Joy McCullough	Supercritical Fluid Enhanced Density Separation of Polymers	Chemistry
Kristen Morgan	Using X-Ray Fluorescence to Determine Impurities in Samples	Chemistry
Melissa Ensor	Aqueous Alkaline Actinide Chemistry for Advanced Nuclear Materials Processing	Chemistry
Michael Beckstead	Comparison of X-ray Beam Forming Optics For Micro X-Ray Florescence	Chemistry
Patricia Melfi	Polypyrrolic Systems for Trivalent Uranium	Chemistry
Sara Wiltshire	Micro X-Ray Fluorescence as an Analytical Tool in Cashmere Hair Characterization	Chemistry
Johanna Blacquiere	First row, M (0) complexes (M = Fe, Ni, Co) demonstrating catalytic dehydrogenation of H_3BNHRR' (R = H, H, Me and R' = H, ^{i}Bu, Me)	Chemistry

Adam Bordelon	An Automated Testing Suite for HPC Toolkit	Computing
Alisa Neeman	Volume Visualization for Non-Destructive Testing	Computing
Alissa McDowell	Logic-Evolved Decision Analysis Team Website	Computing
Andrea Schmidt	The Liénard-Wiechert fields of a Localized Charge in Superluminal Circular Motion	Computing
Andrew Seirp	Economic Consequences of Payment Systems Gridlock	Computing
Angelo Ortiz	Solaris Deployment At Los Alamos National Laboratory	Computing
Anita Salazar	Altiris eXpress	Computing
Ben Santos	Evaluation of Plone Content Management System	Computing
Bill Weiss	Parallelizing Data-Flow Based Query Execution	Computing
Brian Douglass	How We Learn To Stop Worrying and Love the Form	Computing
Carl Nygaard	MPI Hammer A Test Suite for Modern Non-Blocking Cluster Switches	Computing
Catherine Plesko	Verification and Validation of the RAGE Hydrocode in Preparation for Investigation of Impacts into Volatile-Rich Target: Preliminary Report	Computing
Christopher Egner	SchemaTrans: Automating the Translations of Arbitrarily Formatted Data to Relational Databases	Computing
Collin Anderson	Software Behind Quantum Key Distribution	Computing
Craig Blackhart	A Novel Process Automation and Data Integration Approach for Analytical Laboratories	Computing
David Flemming	How We Learn To Stop Worrying and Love the Form	Computing
Dylan Merrigan	Network Installation, Design, and Protection	Computing
Ernest Gallegos	Cost Savings with Utilization of CCN Administration Tools	Computing
Francisco DeMaria	How We Learn To Stop Worrying and Love the Form	Computing
Gregory Redman	Methods for Improved Detection and Triangulation of Rogue Wireless Signals	Computing
Jacob Marshall	Parallel Mesh Generator for UDM Testing	Computing
Jessica Martinez	Providing Access Control Technology at LANL	Computing
Joseph Izraeleritz		Computing
Jungnu Ahluwalia	Creating Efficiency in the Workplace Through Programming	Computing
Larry Ortiz	SMS 2003	Computing
Marcos Padilla	Dancing The Samba	Computing
Neal Picard	Parallel Mesh Generator for UDM Testing	Computing
Rey-Lynn Medina	Methods for Improved Detection and Triangulation of Rogue Wireless Signals	Computing
Roeland Hancock	PMDB:An Integrated SQM Tool	Computing
Scott Ramsey	MCNP Simulation of Polyethylene-Shielded Cf-252, AmBe, AmLi, and Pu Neutron Sources	Computing
Sean Goodman	Methods for Improved Detection and Triangulation of Rogue Wireless Signals	Computing
Shannon Kinkead	Organization of Software Quality Assessment Data	Computing

Shou-De Lin	Machine Discovery of Interesting Instances in Multi-Relational Networks	Computing
Stephen Lovato	Apollo Card Readers	Computing
Timothy Armstrong	How We Learned To Stop Worrying and Love the Form	Computing
Timothy Crary		Computing

Cherly Sedlacek	Multiple Permeable Barriers: Five Years Later	Earth and Space Science
Galvin Martinez	Web Based Organization for the Zert Project	Earth and Space Science
Jennifer Boryta	Stress Transfer Simulations-Seismic Perturbations, Poromechanics, and Groundwater Flow	Earth and Space Science
Jennifer Nisengard	Grid Gardens and Fieldhouses: Agricultural Intensification on the Pajarito Plateau	Earth and Space Science
John Noss	Constraints on Terrestrial and Oceanic CO_2 Sinks Through Measurements of CO_2 and O_2 Concentrations	Earth and Space Science
Kari Schmidt	Grid Gardens and Fieldhouses: Agricultural Intensification on the Pajarito Plateau	Earth and Space Science
Lev Kurbanyan	Constraints on Terrestrial and Oceanic CO_2 Sinks Through Measurements of CO_2 and O_2 Concentrations	Earth and Space Science
Nicholas Hakobian	Space Based X-Ray Navigation System	Earth and Space Science
Rosemary White	Observation of Electron Transfer in Bulky Allyl Ytterbium Complexes with Substituted Terpyridine Ligands	Earth and Space Science

Adam Braud	Performance Modeling for Explosively Actuated Valves	Engineering
Adam Nelson	Intelligence Analysis Tools Applied to Counter Terrorism	Engineering
Alexandria Marchi	The Effect of Cross-linking on Chemical and Mechanical Properties of Ethylene-Propylene-Diene Monomer (EPDM) Elastomers (U)	Engineering
Daniel Coughlin	Real Time Biological Aerosol Detection	Engineering
David Ford	Intelligence Analysis Tools Applied to Counter Terrorism	Engineering
Earl Tipton	A Coarse Scale Vulnerability Metric for Electric Power Substation Facilities Using Remote Sensing Information	Engineering
Gene Winter	The Ever Impressive Flow in a Box	Engineering
Gregory Jarmer	Material Validation and Optimization for High Pressure Gas Gun	Engineering
Gus Takala	Hands-Off Sampler Gun: An Investigator's Best Friend	Engineering
Jarrod Edwards	Comparison of Lumped and Unlumped Discontinuous Finite Element Methods for Solving the Neutron Transport Equation	Engineering
Jay Sherman	Optimization of Aerosol Scavenging	Engineering
Karen Miller	Intelligence Analysis Tools Applied to Counter Terrorism	Engineering
Kathlene Lechner	Systematic Creation of Bayesian Belief Networks: Relationship with Logic-Evolved Decision Tools Software Models	Engineering
Kirsten Mourant	Computer Simulation of the TRU Waste Facility at the Radioactive Liquid Waste Treatment Facility	Engineering
Kyle Richardson	Automated Flow Testing of Measurements Technology Support Wind Tunnel Improves Efficiency and Effectiveness	Engineering
Lauren Etheridge	Criticality Calculations for a Highly Enriched Uranium System	Engineering
Leroy Martinez	Power System Modeling creates Safer more Efficient Facilities	Engineering
Michael Mendoza	Laser Light Box	Engineering
Paul Dimmerling	Volume Analysis of Track Etch Dosimeters	Engineering
Paul Martinez	Parameters of Laser Welding	Engineering
Raven Rotsaert	Care and Feeding of Gluttonous SCC Computers	Engineering
Robert Candalino	Investigation of Subcooled Nucleate Boiling In Target Enclosure	Engineering
Robert Torney	Optimization of High Resolution Ultrasonic Scanning	Engineering
Ryan Abreu	Gimbaled Mirror Tracking	Engineering
Sarmadi Almecci	A Spectroscopic Gamma-Ray Phantom	Engineering

Mark Croce	Fabrication and Characterization of Nanoscale Electronic Structures Wing Scanning Tunneling Microscopy	Materials Science
Alexander Luce	The Characterization of Specimens Obtained from a Terrestrial Aquatic Ecosystem Using Advanced Research and Recovery Techniques	Materials Science
Dmitry Kondratenko	Computational Fluid Dynamics Overview	Materials Science
Ian Frank	Microstructure Evolution and Mechanical Response of Copper Subjected to Shear Localization	Materials Science
James Martinez	The Effect of Rate Dependence on PDMS Tensile Stress-Strain Properties	Materials Science
Kyle Ramos	Elastic-plastic Wave Profiles in Cyclotrimethylene Trinitamine Crystals	Materials Science
McLean Machut	Effects of Plasma Surface Modifications on corrosion of Candidate Steels for Lead Cooled Fast Reactors	Materials Science
Michael Shearn	Detecting Small Numbers of Phosphorus Atoms in Silicon	Materials Science

Andrea Bruder	Two mathematical models for the tympanic membrane	Mathematics
Anuj Mubayi	Differential Behavior of Vectors Infected with Chagas' Disease	Mathematics
Crystal Salazar	Scripting	Mathematics
Edgar Diaz	The Optimal Radius of Ring Vaccination for Foot-and-Mouth Disease	Mathematics
Efrat Bar-Zohar	An Epidemic Model of HSV-1 with Vaccination	Mathematics
Fabio Sanchez	Drinking as an epidemic--a simple mathematical model with relapse education and detoxification	Mathematics
Jose Almora	A multiscale interspecies competition model	Mathematics
Karen Rios-Soto	Dispersal on Epidemics: Discrete in Time and Continuous in Space	Mathematics
Mathew Gluck	The Effect of Immune Response and Multiple Drug Treatment on the Progression of Multi-Strain HIV	Mathematics
Michael Tonks	A Statistical Model of the Crystal Interactions for Polycrystalline Plasticity Simulation	Mathematics
Peter Hosemann	LBE Corrosion Test in the DELTA Loop at LANL and Theoretical Study of Oxide Layer Growth	Mathematics
Titus Kassem	The impact of intervention programs on the transmission of HIV amongst Nigeria's truck drivers	Mathematics

Ketan Mane	Data Visualizations of Co-Authorship Networks, Taxonomies and Information Feeds	Non-Technical
Neil Narang	Bayesian Analysis- A Systematic Approach to Understanding Terrorist Networks and Their Capabilities	Non-Technical
Amanda Courtright	The WatchDog of the United States	Non-Technical
Bethany Rendell	Bayesian Analysis- A Systematic Approach to Understanding Terrorist Networks and Their Capabilities	Non-Technical
Brett Dahlenburg	Communication & Training	Non-Technical
James Monroe	Psychological Consequences of a Radiological Dispersal Device Terrorist Attack	Non-Technical
Melissa Valdez	The WatchDog of the United States	Non-Technical
Tim Sussman	The WatchDog of the United States	Non-Technical
Timothy Callaway	Development of Documentation, Implementation, and Training Users on CCN-4 Badge Reader System	Non-Technical

Aimee Bailey	Photonic Band Gap Structure for Millimeter-wave TWTs	Physics
Adam Light	Visible Light Tomography on FRX-L	Physics
Alberto Canabal-Rey	Electronics Design, Implementation and Testing for Muon-Radiography Detector Upgrade	Physics
Brendan Haberle	Collective Thomson Scattering in a Strongly Coupled Plasma	Physics
Susan Daniels	Bioassay with Magnetic Particles in Flow	Physics
Brandon Peterson	The Phantom Planets of K Giant Stars	Physics
Cassandra Hunt	Look Up—Ground-Based Optical Lightning Detection and Characterization	Physics
Charles Beer	Simulation of Fusion Target Formation and Translation	Physics
Diana Seymour	Optimization of Experimental Parameters for Entangled-Photon Quantum Key	Physics
Drew Reese	Measuring Magnetic Fields of Plasmas: B-dot probes and Integrators	Physics
Garrett Hosack	Polhemus Calibration Phantom For Magnetoencephalography (MEG) and MRI	Physics
Hailey Swinehart	Preparation and Analysis of a 32-Dipole Human Skull Phantom for Simultaneous Electroencephalography and Magnetoencephalography	Physics
Jan Sandin	The Use of SQUIDs for Measuring the Magnetic Moment of Bioassay Nanoparticles	Physics
Jason Leonard	PPMS Hall Effect measurements on heavy-fermion compounds	Physics
Jessica Godin	Silicon Carbide Sever Geometry in Millimeter-Wave Traveling Wave Tubes	Physics
Jordan Hanson	New Methods in Solar Astronomy: Employing Detection Rates at the Milagro Observatory	Physics
Katherine Evans	Development of a 2-D Convection Model to Accurately Simulate Phase transitions Over Long Time Integrations	Physics
Leif Hopkins	Analysis of PRAD Images	Physics
Mark Makela	The Ultracold Neutron Sources at LANSCE	Physics
Matthew Ross	Supercontinuum Generation in Photonic Crystal Fibers	Physics
Miroslav Mihaylov	Path length effects relative to the reaction plane in heavy ion collisions	Physics
Nikita Sakhanenko	Reconstructing Physical Processes From Prad and VISAR Data	Physics
Quentin Roper	Simulation and Analysis of Backward Stimulated Raman and Brillouin Scattering in a Laser-Driven Hotspot with Varying Laser Intensity	Physics
Samuel Skillman	Modeling NASA's Deep Impact Mission with Smoothed Particle Hydrodynamics	Physics
Shuang Du	Muon Backing Veto for UCNA Experiment	Physics
Violeta, Beleva	Modeling DNA Bubble Formation at the Atomic Scale	Physics